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What is claimed is:

1. A telephone communication system comprising a public network, an internet service provider network and a plurality of telephone sets accommodated in the public network, wherein when a calling telephone set as an internet service provider network subscriber provides connection point data for making internet service telephone communication to a called telephone set via a public network, the called telephone set receiving the connection point data connects itself to an internet service provider network according to the connection point data, and then the calling telephone set connects itself to the internet service provider network.

2. A telephone communication system comprising a public network, an internet service provider network and a plurality of telephone sets accommodated in the public network, wherein when a calling telephone set as an internet service provider network subscriber provides connection point data for making internet service telephone communication to a called telephone set via a public network, the called telephone set receiving the connection point data connects itself to an internet service provider network according to the connection point data, and then the calling telephone set connects itself to the internet service provider network, the connection point data including at least an IP address in the internet service provider network and the telephone number of a

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point to be connected to the internet service provider network.

3. A telephone communication system comprising a public network, an internet service provider network and a plurality of telephone sets accommodated in the public network, wherein when a calling telephone set as an internet service provider network subscriber provides connection point data for making internet service telephone communication to a called telephone set via a public network, the called telephone set receiving the connection point data connects itself to an internet service provider network according to the connection point data, and then the calling telephone set connects itself to the internet service provider network, the connection point data including at least an IP address in the internet service provider network and the telephone number of a point to be connected to the internet service provider network, a push-button telephone set having various function keys being provided between each of the plurality of telephone sets and the public network with a function of sending out a call from each telephone set.

4. The telephone communication system according to ^{claim 1} ~~one of claims 1 to 3~~, wherein the functions of each telephone set are executed on a personal computer.

5. The telephone communication system according to

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A ^{claim 1}
~~one of claims 1 to 3~~, wherein the functions of each telephone set are executed with an IVR (interactive voice response unit or a facsimile data server or a voice recognition dialer or a voice mail.

A 6. The telephone set according to ^{claim 1}
~~one of claims 1-3~~, which comprises:

a ten-key unit having dial keys and a function key for indicating an internet telephone service;

a display unit for displaying a call arrival notification and results of various processes in the telephone set;

an accumulating unit for storing telephone number data and access identifier data of internet connection points to be connected by the calling and called sides;

a voice codec to be started by a command for voice communication in the internet; and

a telephone set control unit for detecting depressed push-buttons in the ten-key unit, obtaining the connection point data from the accumulating unit, sending out dial data and connection point data via the public network, starting the voice codec when the dialed side has been connected to the internet service provider network and, upon arrival of a call, retrieving for the connection point data of the calling side, effecting connection of the own side to the internet service provider network by retrieving and referring to the accumulating unit according to the connection point data and informing the

calling side of the connection.

A ^{claim 1} ~~one of claims 1-3~~, wherein each telephone set further comprises an encryption unit for permitting exchange of connection point data in terms of ciphers.

8. An internet communication method comprising steps of:

~~8~~ in response to provision, by a calling telephone set as an internet service provider network subscriber, of connection point data for making internet service telephone communication to a called telephone set via a public network, the called telephone set receiving the connection point data connects itself to an internet service provider network on the basis of the connection point data, and then the calling telephone set connects itself to the internet service provider network.

9. An internet communication method comprising steps of:

in response to provision, by a calling telephone set as an internet service provider network subscriber, of connection point data for making internet service telephone communication to a called telephone set via a public network, the called telephone set receiving the connection point data connects itself to an internet service provider network on the basis of the connection

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point data, and then the calling telephone set connects itself to the internet service provider network, the connection point data including at least an IP address in the internet service provider network and the telephone number of a point to be connected to the internet service provider network.

10. A n internet communication method comprising steps of:

in response to provision, by a calling telephone set as an internet service provider network subscriber, of connection point data for making internet service telephone communication to a called telephone set via a public network, the called telephone set receiving the connection point data connects itself to an internet service provider network on the basis of the connection point data, and then the calling telephone set connects itself to the internet service provider network, the connection point data including at least an IP address in the internet service provider network and the telephone number of a point to be connected to the internet service provider network, a push-button telephone set having various function keys being provided between each of the plurality of telephone sets and the public network with a function of sending out a call from each telephone set.